

1 **ABSTRACT**

2 A temperature compensated technique and circuit can be realized
3 through the generation of a temperature compensated output voltage (V_{new})
4 provided after summing the temperature coefficients (TC_1, TC_2) of two base
5 voltages (V_{TC1}, V_{TC2}) assigned with different weights (a, b) and producing a
6 new temperature coefficient (TC_{new}). This TC_{new} satisfies the expression:
7 $TC_{new} = TC_1 + a \times (TC_2 - TC_1)$, where the assigned weighted value (a) can be
8 either a positive or a negative value, depending on the requirement of a circuit, in
9 order to develop voltage supply suitable for wider applications.